

Form PTO-1449

# INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optional)  
**3278.2US**Application Number  
**To be assigned**Applicant **Herron et al.**Filing Date **June 8, 2001**Group Art Unit **To be assigned**U.S. PTO  
09/86  
07/87/635

06/08/01

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>OP</i>	3,748,044	07/24/73	Liston			
	3,934,061	01/20/76	Keck et al.			
	3,939,350	02/17/76	Kronick et al.			
	4,071,020	01/31/78	Pugliese			
	4,166,105	08/28/79	Hirschfeld			
	4,264,766	04/28/81	Fischer			
	4,298,685	11/03/81	Parikh et al.			
	4,450,231	05/22/84	Ozkan			
	4,591,570	05/27/86	Chang			
	4,818,710	04/04/89	Sutherland et al.			
	4,857,273	08/15/89	Stewart			
	4,857,453	08/15/89	Ullman et al.			
	4,866,681	09/12/89	Fertig			
<i>AT</i>	Re. 33,064	09/19/89	Carter et al.			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
<i>OP</i>	2 220 083 A	12/28/89	Great Britain				
	WO 90/01166	02/08/90	PCT				
	WO 90/06503	06/14/90	PCT				
	WO 91/13339	09/05/91	PCT				
	WO 91/01498	02/07/91	PCT				
<i>AT</i>	2,027,434	04/13/92	Canada				

## OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

<i>OP</i>	Carlsson et al., "Protein Thiolation and Reversible Protein-Protein Conjugation, <u>Biochem. J.</u> , 173, pp. 723-737, 1978.
<i>OP</i>	Fenton, J.J. et al., "Diagnostic Efficacy of a New Enzyme Immunoassay for Creatine Kinase MB Isoenzyme", 30 Clin. Chem., pp. 1399-1401 (1984).

EXAMINER

DATE CONSIDERED

*7/27/03*

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>de</i>	4,880,752	11/14/89	Keck et al.			
	4,892,383	01/09/90	Klainer et al.			
	4,893,894	01/16/90	Caimi			
	4,909,990	03/20/90	Block et al.			
	4,913,519	04/03/90	Klainer et al.			
	4,940,328	07/10/90	Hartman			
	4,945,245	07/31/90	Levin			
	4,954,318	09/04/90	Yafuso et al.			
	5,000,540	03/19/91	Nakamura			
	5,006,333	04/09/91	Seifer et al.			
	5,006,716	04/09/91	Hall			
	5,009,996	04/23/91	Shah et al.			

### FOREIGN PATENT DOCUMENTS

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						YES	NO

### OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

<i>de</i>	Harrick et al., "Multiple Internal Reflection Fluorescence Spectrometry", <u>Analytical Chemistry</u> , Vol. 45, No. 4, pp. 687-689, 691, April 1973.
<i>de</i>	Hirano, K. et al., "Determination of mitochondrial asparatate aminotransferase in serum", 155 <u>Clin. Chim. ACTA</u> , pp. 251-262 (1986).
<i>de</i>	Hoberg, e. et al., "Myoglobin, creatine kinase- $\beta$ isoenzyme, and myosin light chain release4 in patients with unstable angina pectoris, 8 <u>Eur. Heart J.</u> , pp. 989-994 (1987).

EXAMINER <i>de</i>	DATE CONSIDERED <i>1/27/03</i>
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### U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>CE</i>	5,043,278	08/27/91	Nagaoka et al.			
	5,059,396	10/22/91	Opitz et al.			
	5,064,619	11/12/91	Finlan			
	5,081,012	01/14/92	Flanagan et al.			
	5,132,095	07/21/92	Koshiishi et al.			
	5,156,972	10/20/92	Issachar			
	5,156,976	10/20/92	Slovacek et al.			
	5,164,589	11/17/92	Sjodin			
	5,166,515	11/24/92	Attridge			
	5,173,747	12/22/92	Boiarski et al.			
	5,192,502	03/09/93	Attridge et al.			

### FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

### OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

<i>CE</i>	Ives et al., "Protein Adsorption on the Surface of a Thin-Film Polymer Integrated Optical Waveguide", <u>Applied Spectroscopy</u> , Vol. 42, Number 1, pp. 68-72, 1988.
<i>CE</i>	Ives et al., "Total Internal Reflection Fluorescence Surface Sensors.", <u>Optical Fiber Sensors</u> , pp. 391-396, 1987.
<i>CE</i>	Juronen, E.I. et al., "Rapid, simple and sensitive antigen capture ELISA for the quantitation of myoglobin using monoclonal antibodies", 111 <u>J. Immunol. Methods</u> , pp. 109-115 (1988).

EXAMINER <i>CE</i>	DATE CONSIDERED <i>7/27/03</i>
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<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	5,192,510	03/09/93	Zoha et al.	<div style="font-size: 4em; transform: rotate(-45deg);">X</div>	<div style="font-size: 4em; transform: rotate(-45deg);">X</div>		
	5,202,230	04/13/93	Kamentsky				
	5,212,099	05/18/93	Marcus				
	5,221,958	06/22/93	Bohnenkamp				
	5,224,188	06/29/93	Vali				
	5,248,620	09/28/93	Sluka et al.				
	5,249,251	09/28/93	Egalon et al.				
	Re 34,394	09/28/93	Bunting				
	5,262,638	11/16/93	Egalon et al.				
	5,266,486	11/30/93	Fraatz et al.				
	5,268,305	12/07/93	Ribi et al.				
	<b>FOREIGN PATENT DOCUMENTS</b>						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

<b>OTHER DOCUMENTS</b>		(Including Author, Title, Date, Pertinent Pages, Etc.)
		Kenett, D., "Quantitative ELISA for human lactate dehydrogenase isoenzyme 5", 9 ENDFIELD J. Immunoassay, pp. 37-49 (1988).
		Lee et al., "Protein-resistant surfaces prepared by PEO-containing block copolymer surfactants", <u>Journal of Biomedical Materials Research</u> , pp. 351-368 (1989).
		Nagai, R. et al., "Clinical application of immunoassays for cardiac myosin light chains", 37 <u>RINSHO BYORI</u> , pp. 1353-1359 (1989) (Article in Japanese, English version of abstract also provided).
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,274,721	12/28/93	Dickinson et al.			
	5,290,678	03/01/94	Jackowski			
	5,300,423	04/05/94	Zoha et al.			
	5,327,225	07/05/94	Bender et al.			
	5,340,715	08/23/94	Slovacek et al.			
	5,340,722	08/23/94	Wolfbeis et al.			
	5,341,805	08/30/94	Stavridi et al.			
	5,343,550	08/30/94	Egalon et al.			
	5,344,784	09/06/94	Attridge			
	5,354,574	10/11/94	Kobayashi et al.			
	5,372,936	12/13/94	Fraatz et al.			
	5,377,008	12/27/94	Ridgway et al.			

### FOREIGN PATENT DOCUMENTS

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### OTHER DOCUMENTS

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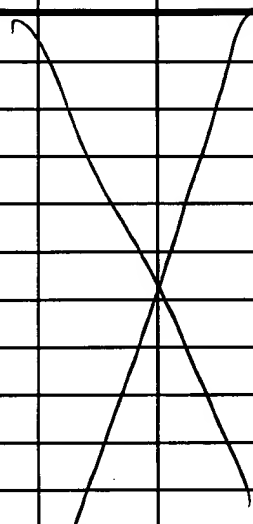
	"OPUS Troponin 1 Calibrators", package insert, 1 page, August 1995.
	"OPUS Troponin 1" instructions, 1 page, February 1996.
	"OPUS Troponin 1 Controls", package insert, 1 page, October 1996.

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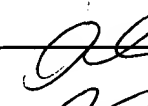

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,399,866	03/21/95	Feldman et al.			
	5,401,469	03/28/95	Kobayashi et al.			
	5,413,939	05/09/95	Gustafson et al.			
	5,416,579	05/16/95	Barshad et al.			
	5,422,283	06/06/95	Ismail			
	5,426,032	06/20/95	Phillips et al.			
	5,427,915	06/27/95	Ribi et al.			
	5,432,096	07/11/95	Zhu			
	5,437,840	08/01/95	King et al.			
	5,449,625	09/12/95	Kobayashi et al.			
	5,478,755	12/26/95	Attridge et al.			


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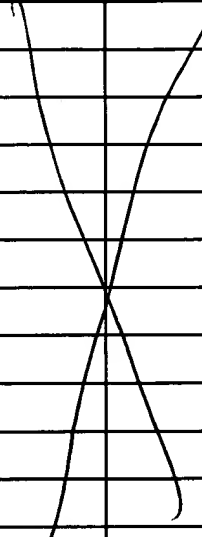

	Pecht et al., "Kinetics of Antibody-Hapten Interactions", <u>Molecular Biology, Biochemistry and Biophysics</u> , pp. 308-309, 311, 313, 315, 317, 319, 321, 323-324, 326, 328, 330, 332, 334, 336, 338, 1977.
	Van Steirteghem, A.C. et al., "Comparison of the Effectiveness of Four Clinical Chemical Assays in Classifying Patients with Chest Pain", 28 <u>Clin. Chem.</u> , pp. 1319-1324 (1982).
	Varasteh, A. et al., "An avidin-biotin ELISA for the measurement of mitochondrial aspartate aminotransferase in human serum", 128 <u>J. Immunol. Methods</u> , pp. 203-209 (1990).
	Walker et al., "Integrated Optical Waveguide Attenuated Total Reflection Spectrometry and Resonance Raman Spectroscopy of Adsorbed Cytochrome c", <u>J. Phys. Chem.</u> , Vol. 97, No. 39, pp. 10217-10222, 1993.
	Walker et al., "Corning 7059, Silicon Oxynitride, and Silicon Dioxide Thin-Film Integrated Optical Waveguides: In Search of Low Loss, Nonfluorescent, Reusable Glass Waveguides", <u>Applied Spectroscopy</u> , Vol. 46, No. 9, pp. 1437-1441, 1992.

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	5,492,674	02/20/96	Meserol			
	5,494,798	02/27/96	Gerdt et al.			
	5,494,803	02/27/96	Carbonell et al.			
	5,514,596	05/07/96	King et al.			
	5,538,850	07/23/96	King et al.			
	5,552,272	09/03/96	Bogart			
	5,580,794	12/03/96	Allen			
	5,604,105	02/18/97	Jackowski			
	5,710,008	01/20/98	Jackowski			
	5,747,274	05/05/98	Jackowski			
	5,814,565	09/29/98	Reichert et al.			
		6,222,619	04/24/01		Herron et al.	

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						YES	NO

### OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

	Werner, M. et al., "Diagnostic Performance of Enzymes in the Discrimination of Myocardial Infarction", 28 <u>Clin. Chem.</u> , pp. 1297-1302 (1982).
	R. Wurmser, "Thermodynamic study of antigen-antibody reactions", <u>Experimental Methods in Biophysical Chemistry</u> , pp. 613-647.

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